

## TCEQ Cementing Certificate for PWS Groundwater Well Construction

PWS Nº :	TCEQ Approval Letter Log Nº: P-
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Cementing Company Name

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Name and Title of Company Representative

Telephone Number

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Company Address

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### Cementing Information

AWWA A100-15 Appendix C Method Used for Cementing Well* (circle method used)	C2	C3	C4	C5
Casing Material and Specification (AWWA A100-15 Table 2 "Water well casing materials")	Check the appropriate pipe on following sheet			

Note: Please use columns 2-3 only if increasing or decreasing borehole and/or casing sizes are utilized

Information	Size 1	Size 2	Size 3
Borehole size (inch)			
Actual Casing size (inch of outside diameter)			
Ground Surface Elevation (GSE) as (msl or 0)			
Top of casing elevation (msl or +GSE)			
Bottom of casing elevation (msl or -GSE)			
Number of centralizers used			
Vol. - sacks of cement (with water & additives)			
Vol. of hole (annular space) to be cemented**			
Number of sacks calculated to fill annular space			
Number of sacks of 94 lb. cement used			
Volume balance between sacks used & required			
Gallons of water used per 94 lb. sack of cement and additives			
Depth of pressure cementing			
Date of pressure cementing			
API Class of cement used			
Additives used (bentonite, calcium chloride, etc)			
% of additive added to cement -			
% of additive added to cement -			
% of additive added to cement -			

\*Please note that AWWA A100-15 Method C1 is not allowed to be used, see 30 TAC §290.41(c)(3)(C)

\*\*borehole minus outside diameter of casing pipe

Signature of Representative

Date

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# American Water Works Association Standard A100-15 Water Wells

## APPENDIX C Grouting and Sealing—Methods of Placement

### SECTION C.2: Positive Displacement – Exterior Method

### SECTION C.3: Interior Method – Without Plug

### SECTION C.4: Positive Placement, Interior Method – Drillable Plug

### SECTION C.5: Placement through Float Shoe Attached to Bottom of Casing

*\* For details of these approved methods refer to AWWA A100-15 Appendix C for details.*

## Water-well Casing Materials Table 2 from AWWA A100-15

### A. Manufacturing standards for single-ply carbon-steel well casing:

- ☐ ANSI/AWWA C200
- ☐ API Spec. 5L
- ☐ ASTM A53 Grade B
- ☐ ASTM A139 Grade B

### B. Manufacturing standards for alternative-ply well-casing materials:

- |  |  |
|--|--|
| <input type="checkbox"/> Casing Material               | Manufacturing Standard   |
| <input type="checkbox"/> Carbon Steel                  | ASTM A139 Grade B  |
| <input type="checkbox"/> Copper-Bearing Steel          | ASTM A139 Grade B with additional requirement that the steel contain a minimum of 0.20% copper |
| <input type="checkbox"/> High-Strength Low-Alloy Steel | ASTM A606 Type 4   |
| <input type="checkbox"/> Stainless Steel               | ASTM A778  |
| <input type="checkbox"/> Plastic                       | ASTM F480  |